

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/933,821DATE: 12/22/97  
TIME: 14:09:48

INPUT SET: S22244.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

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SEQUENCE LISTING

(1) General Information:

(i) APPLICANT: Godowski, Paul J.  
Gurney, Austin L.

(ii) TITLE OF INVENTION: Tie Ligands

(iii) NUMBER OF SEQUENCES: 17

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Genentech, Inc.  
(B) STREET: 1 DNA Way  
(C) CITY: South San Francisco  
(D) STATE: California  
(E) COUNTRY: USA  
(F) ZIP: 94080

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk  
(B) COMPUTER: IBM PC compatible  
(C) OPERATING SYSTEM: PC-DOS/MS-DOS  
(D) SOFTWARE: WinPatin (Genentech)

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER:  
(B) FILING DATE:  
(C) CLASSIFICATION:

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Dreger, Ginger R.  
(B) REGISTRATION NUMBER: 33,055  
(C) REFERENCE/DOCKET NUMBER: P1130

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 650/225-3216  
(B) TELEFAX: 650/952-9881

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 2290 base pairs  
(B) TYPE: Nucleic Acid  
(C) STRANDEDNESS: Single  
(D) TOPOLOGY: Linear

ENTERED

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/933,821DATE: 12/22/97  
TIME: 14:09:51

INPUT SET: S22244.raw

47 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
48  
49

50 GGCTGAGGGG AGGCCCCGAG CCTTTCTGGG GCCTGGGGGA TCCTCTTGCA 50  
51  
52 CTGGTGGGTG GAGAGAAGCG CCTGCAGCCA ACCAGGGTCA GGCTGTGCTC 100  
53  
54 ACAGTTTCCT CTGGCGGCAT GTAAAGGCTC CACAAAGGAG TTGGGAGTTC 150  
55  
56 AAATGAGGCT GCTGCGGACG GCCTGAGGAT GGACCCCAAG CCCTGGACCT 200  
57  
58 GCCGAGCGTG GCACTGAGGC AGCGGCTGAC GCTACTGTGA GGGAAAGAAG 250  
59  
60 GTTGTGAGCA GCCCCGCAGG ACCCCTGGCC AGCCCTGGCC CCAGCCTCTG 300  
61  
62 CCGGAGCCCT CTGTGGAGGC AGAGCCAGTG GAGCCCAGTG AGGCAGGGCT 350  
63  
64 GCTTGGCAGC CACCGGCCTG CAACTCAGGA ACCCCTCCAG AGGCCATGGA 400  
65  
66 CAGGCTGCCC CGCTGACGGC CAGGGTGAAG CATGTGAGGA GCCGCCCCGG 450  
67  
68 AGCCAAGCAG GAGGGAAGAG GCTTTCATAG ATTCTATTCA CAAAGAATAA 500  
69  
70 CCACCATTTT GCAAGGACCA TGAGGCCACT GTGCGTGACA TGCTGGTGGC 550  
71  
72 TCGGACTGCT GGCTGCCATG GGAGCTGTTG CAGGCCAGGA GGACGGTTTT 600  
73  
74 GAGGGCACTG AGGAGGGCTC GCCAAGAGAG TTCATTTACC TAAACAGGTA 650  
75  
76 CAAGCGGGCG GCGGAGTCCC AGGACAAGTG CACCTACACC TTCATTGTGC 700  
77  
78 CCCAGCAGCG GGTCACGGGT GCCATCTGCG TCAACTCCAA GGAGCCTGAG 750  
79  
80 GTGCTTCTGG AGAACCGAGT GCATAAGCAG GAGCTAGAGC TGCTCAACAA 800  
81  
82 TGAGCTGCTC AAGCAGAAGC GGCAGATCGA GACGCTGCAG CAGCTGGTGG 850  
83  
84 AGGTGGACGG CGGCATTGTG AGCGAGGTGA AGCTGCTGCG CAAGGAGAGC 900  
85  
86 CGCAACATGA ACTCGCGGGT CACGCAGCTC TACATGCAGC TCCTGCACGA 950  
87  
88 GATCATCCGC AAGCGGGACA ACGCGTTGGA GCTCTCCCAG CTGGAGAACA 1000  
89  
90 GGATCCTGAA CCAGACAGCC GACATGCTGC AGCTGGCCAG CAAGTACAAG 1050  
91  
92 GACCTGGAGC ACAAGTACCA GCACCTGGCC AACTGGCCC ACAACCAATC 1100  
93  
94 AGAGATCATC GCGCAGCTTG AGGAGCACTG CCAGAGGGTG CCCTCGGCCA 1150  
95  
96 GGCCCGTCCC CCAGCCACCC CCCGCTGCCC CGCCCCGGGT CTACCAACCA 1200  
97  
98 CCCACCTACA ACCGCATCAT CAACCAGATC TCTACCAACG AGATCCAGAG 1250  
99

RAW SEQUENCE LISTING  
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100 TGACCAGAAC CTGAAGGTGC TGCCACCCCC TCTGCCCACT ATGCCCACTC 1300  
101  
102 TCACCAGCCT CCCATCTTCC ACCGACAAGC CGTCGGGCCC ATGGAGAGAC 1350  
103  
104 TGCCTGCAGG CCCTGGAGGA TGGCCACGAC ACCAGCTCCA TCTACCTGGT 1400  
105  
106 GAAGCCGGAG AACACCAACC GCCTCATGCA GGTGTGGTGC GACCAGAGAC 1450  
107  
108 ACGACCCCGG GGGCTGGACC GTCATCCAGA GACGCCTGGA TGGCTCTGTT 1500  
109  
110 AACTTCTTCA GGAAGTGGGA GACGTACAAG CAAGGGTTTG GGAACATTGA 1550  
111  
112 CGGCGAATAC TGGCTGGGCC TGGAGAACAT TTAAGTGGCTG ACGAACCAAG 1600  
113  
114 GCAACTACAA ACTCCTGGTG ACCATGGAGG ACTGGTCCGG CCGCAAAGTC 1650  
115  
116 TTTGCAGAAT ACGCCAGTTT CCGCCTGGAA CCTGAGAGCG AGTATTATAA 1700  
117  
118 GCTGCGGCTG GGGCGCTACC ATGGCAATGC GGGTGACTCC TTTACATGGC 1750  
119  
120 ACAACGGCAA GCAGTTCACC ACCCTGGACA GAGATCATGA TGTCTACACA 1800  
121  
122 GGAAACTGTG CCCACTACCA GAAGGGAGGC TGGTGGTATA ACGCCTGTGC 1850  
123  
124 CCACTCCAAC CTCAACGGGG TCTGGTACCG CGGGGGCCAT TACCGGAGCC 1900  
125  
126 GCTACCAGGA CGGAGTCTAC TGGGCTGAGT TCCGAGGAGG CTCTTACTCA 1950  
127  
128 CTCAAGAAAG TGGTGATGAT GATCCGACCG AACCCCAACA CCTTCCACTA 2000  
129  
130 AGCCAGCTCC CCCTCCTGAC CTCTCGTGGC CATTGCCAGG AGCCCACCCT 2050  
131  
132 GGTCACGCTG GCCACAGCAC AAAGAACAAC TCCTCACCAG TTCATCCTGA 2100  
133  
134 GGCTGGGAGG ACCGGGATGC TGGATTCTGT TTTCCGAAGT CACTGCAGCG 2150  
135  
136 GATGATGGAA CTGAATCGAT ACGGTGTTTT CTGTCCCTCC TACTTTCCTT 2200  
137  
138 CACACCAGAC AGCCCCTCAT GTCTCCAGGA CAGGACAGGA CTACAGACAA 2250  
139  
140 CTCTTTCTTT AAATAAATTA AGTCTCTACA ATAAAAAAAA 2290

## (2) INFORMATION FOR SEQ ID NO:2:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 493 amino acids

(B) TYPE: Amino Acid

(D) TOPOLOGY: Linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

151 Met Arg Pro Leu Cys Val Thr Cys Trp Trp Leu Gly Leu Leu Ala  
152 1 5 10 15

RAW SEQUENCE LISTING  
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153	
154	Ala Met Gly Ala Val Ala Gly Gln Glu Asp Gly Phe Glu Gly Thr
155	20 25 30
156	
157	Glu Glu Gly Ser Pro Arg Glu Phe Ile Tyr Leu Asn Arg Tyr Lys
158	35 40 45
159	
160	Arg Ala Gly Glu Ser Gln Asp Lys Cys Thr Tyr Thr Phe Ile Val
161	50 55 60
162	
163	Pro Gln Gln Arg Val Thr Gly Ala Ile Cys Val Asn Ser Lys Glu
164	65 70 75
165	
166	Pro Glu Val Leu Leu Glu Asn Arg Val His Lys Gln Glu Leu Glu
167	80 85 90
168	
169	Leu Leu Asn Asn Glu Leu Leu Lys Gln Lys Arg Gln Ile Glu Thr
170	95 100 105
171	
172	Leu Gln Gln Leu Val Glu Val Asp Gly Gly Ile Val Ser Glu Val
173	110 115 120
174	
175	Lys Leu Leu Arg Lys Glu Ser Arg Asn Met Asn Ser Arg Val Thr
176	125 130 135
177	
178	Gln Leu Tyr Met Gln Leu Leu His Glu Ile Ile Arg Lys Arg Asp
179	140 145 150
180	
181	Asn Ala Leu Glu Leu Ser Gln Leu Glu Asn Arg Ile Leu Asn Gln
182	155 160 165
183	
184	Thr Ala Asp Met Leu Gln Leu Ala Ser Lys Tyr Lys Asp Leu Glu
185	170 175 180
186	
187	His Lys Tyr Gln His Leu Ala Thr Leu Ala His Asn Gln Ser Glu
188	185 190 195
189	
190	Ile Ile Ala Gln Leu Glu Glu His Cys Gln Arg Val Pro Ser Ala
191	200 205 210
192	
193	Arg Pro Val Pro Gln Pro Pro Pro Ala Ala Pro Pro Arg Val Tyr
194	215 220 225
195	
196	Gln Pro Pro Thr Tyr Asn Arg Ile Ile Asn Gln Ile Ser Thr Asn
197	230 235 240
198	
199	Glu Ile Gln Ser Asp Gln Asn Leu Lys Val Leu Pro Pro Pro Leu
200	245 250 255
201	
202	Pro Thr Met Pro Thr Leu Thr Ser Leu Pro Ser Ser Thr Asp Lys
203	260 265 270
204	
205	Pro Ser Gly Pro Trp Arg Asp Cys Leu Gln Ala Leu Glu Asp Gly

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/933,821

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206		275		280		285
207						
208	His Asp Thr Ser Ser Ile Tyr Leu Val Lys Pro Glu Asn Thr Asn					
209		290		295		300
210						
211	Arg Leu Met Gln Val Trp Cys Asp Gln Arg His Asp Pro Gly Gly					
212		305		310		315
213						
214	Trp Thr Val Ile Gln Arg Arg Leu Asp Gly Ser Val Asn Phe Phe					
215		320		325		330
216						
217	Arg Asn Trp Glu Thr Tyr Lys Gln Gly Phe Gly Asn Ile Asp Gly					
218		335		340		345
219						
220	Glu Tyr Trp Leu Gly Leu Glu Asn Ile Tyr Trp Leu Thr Asn Gln					
221		350		355		360
222						
223	Gly Asn Tyr Lys Leu Leu Val Thr Met Glu Asp Trp Ser Gly Arg					
224		365		370		375
225						
226	Lys Val Phe Ala Glu Tyr Ala Ser Phe Arg Leu Glu Pro Glu Ser					
227		380		385		390
228						
229	Glu Tyr Tyr Lys Leu Arg Leu Gly Arg Tyr His Gly Asn Ala Gly					
230		395		400		405
231						
232	Asp Ser Phe Thr Trp His Asn Gly Lys Gln Phe Thr Thr Leu Asp					
233		410		415		420
234						
235	Arg Asp His Asp Val Tyr Thr Gly Asn Cys Ala His Tyr Gln Lys					
236		425		430		435
237						
238	Gly Gly Trp Trp Tyr Asn Ala Cys Ala His Ser Asn Leu Asn Gly					
239		440		445		450
240						
241	Val Trp Tyr Arg Gly Gly His Tyr Arg Ser Arg Tyr Gln Asp Gly					
242		455		460		465
243						
244	Val Tyr Trp Ala Glu Phe Arg Gly Gly Ser Tyr Ser Leu Lys Lys					
245		470		475		480
246						
247	Val Val Met Met Ile Arg Pro Asn Pro Asn Thr Phe His					
248		485		490		493
249						

## (2) INFORMATION FOR SEQ ID NO:3:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 3355 base pairs
- (B) TYPE: Nucleic Acid
- (C) STRANDEDNESS: Single
- (D) TOPOLOGY: Linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

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**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/08/933,821**

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*INPUT SET: S22244.raw*

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Original Text